

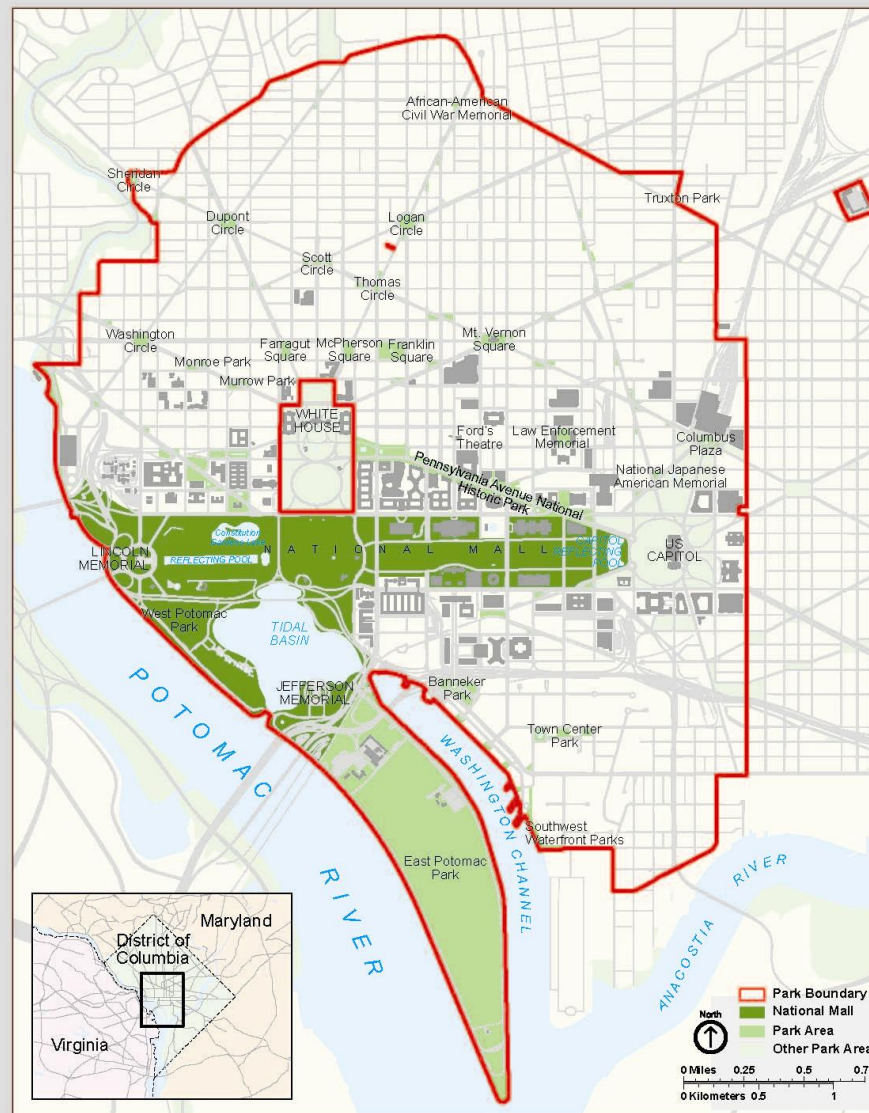
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**This National Park
blends cultural,
international,
educational,
recreational,
commemorative,
diplomatic,
natural, and
historic aspects
like no other park
in the system...**

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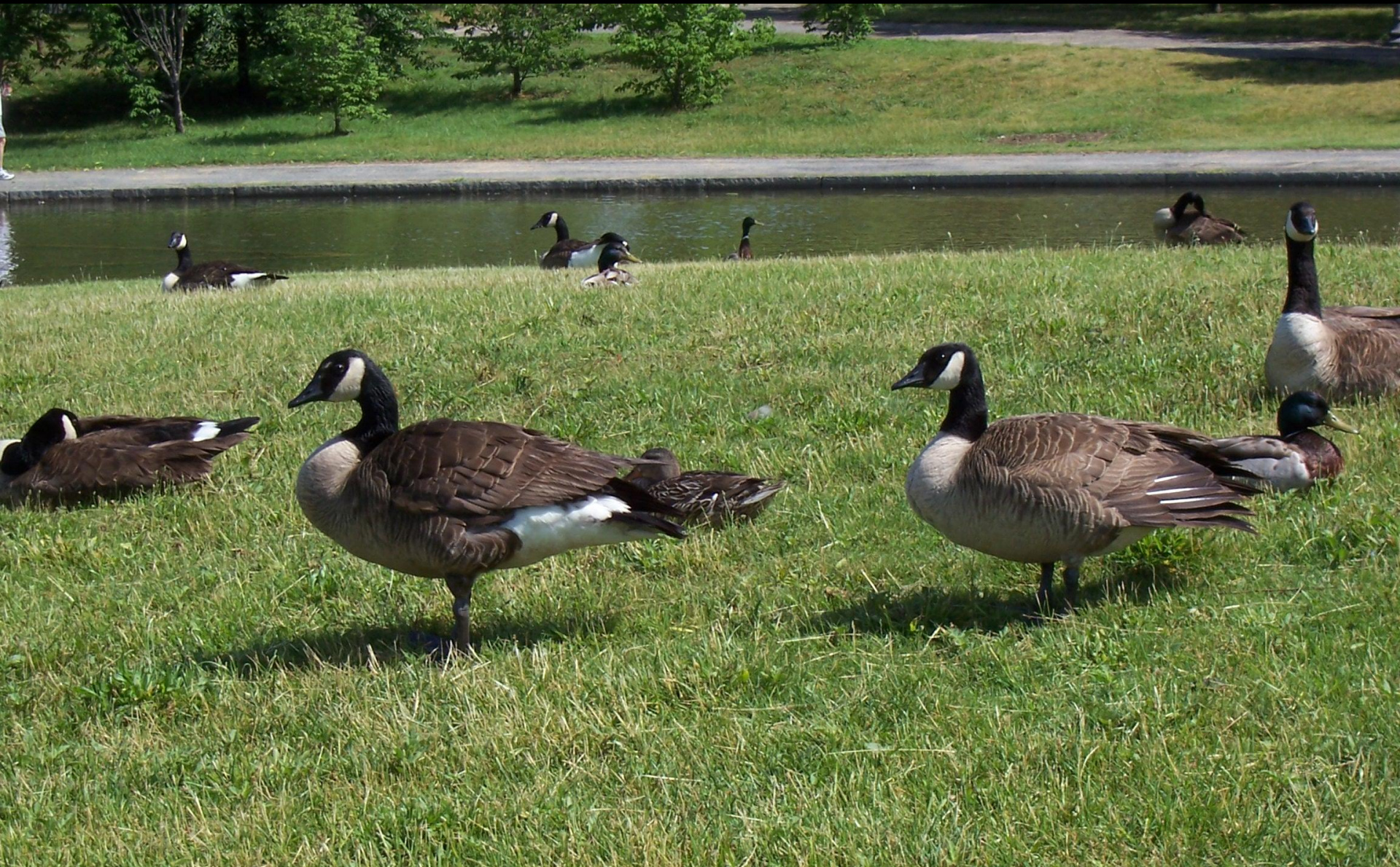
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Light + Food= Algae







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Pest (algae)
threshold
varies
depending
upon the
water feature



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**Pershing Park
shortly after
cleaning and refill**



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A photograph of Pershing Park in Washington, D.C. The image shows a large, rectangular stone waterfall cascading into a pond. The water in the pond is a vibrant green color. The pond is surrounded by lush green trees and foliage. In the background, there are stone steps and a paved area with some parked cars. The overall scene is a peaceful urban park setting.

**Pershing Park
a few weeks
later**

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FDR
spring 07

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**FDR
after
cleaning**



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The background of the slide is a photograph of a water treatment facility. It shows large, rectangular concrete structures with water flowing over them, creating white foam and splashes. The water is a deep green color. The concrete structures are covered in green moss or algae.

**DC WASA
water treatment
changes**

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**Filipa Rio graduate student
Virginia Polytechnic Institute
and State University**

Scope of work has two components:

Fountain Inventory

Creation of Fountain Management Plans

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Fountain Inventory

Completion of a fountain inventory
via site visits and research

Photo documentation of
structural & mechanical components

Creation of fountain inventory spreadsheet

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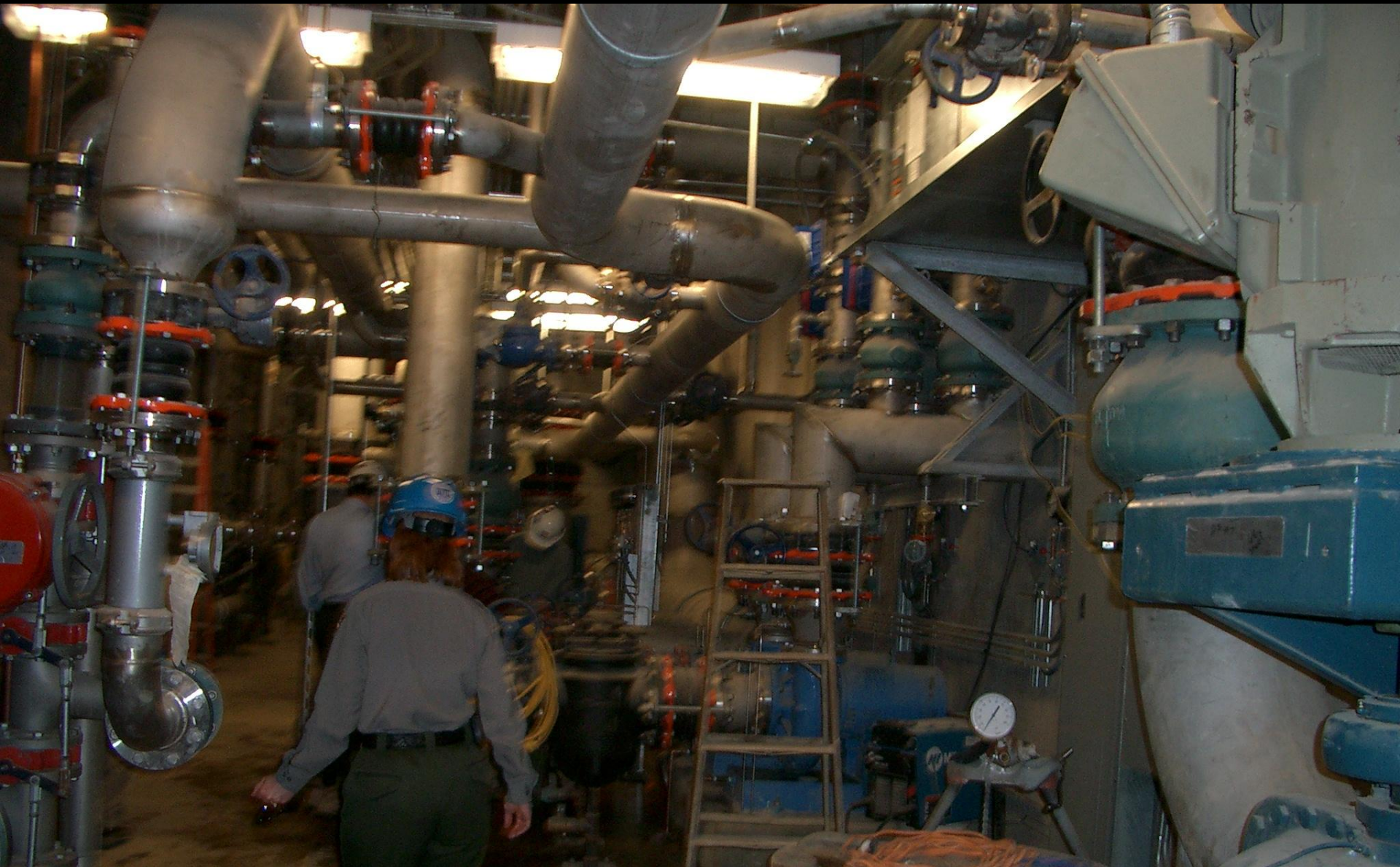
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It has been difficult locating drawings and manuals

Unfortunately, most do not have architectural drawings

AND

much institutional knowledge has been lost due to inadequate documentation over the years

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PRO GUARD[®] D I C H L O R O G R A N U L E S

Quick-dissolving stabilized chlorinating granules
IDEAL FOR VINYL POOLS

ACTIVE INGREDIENT:

Sodium dichloro-s-triazinetrione dihydrate 99.0%

INERT INGREDIENT 1.0%

TOTAL INGREDIENTS 100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER

FIRST AID: IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call poison control center or doctor for treatment advice. **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **IF SWALLOWED:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. **Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage. **IN CASE OF MEDICAL EMERGENCY, CALL 1-877-800-5553.**

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Creation of Fountain Management Plans

Standard Operating Procedure (SOP)
drafted for several fountains
representative of the various types of
stone, circulation systems, etc.



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Do you have any innovative water quality maintenance ideas that will still allow for the preservation and protection of our decorative water features?

**If so, please contact
mary_willeford_bair@nps.gov**